

Serial No. 10/572,955
Amdt. dated April 14, 2009
Reply to Office Action of January 15, 2009

Docket No. P-0770

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for fixing a stator of a motor of a reciprocal compressor, the apparatus comprising:
 - a front frame;
 - a cylinder inserted into and coupled to the front frame;
 - an outer stator supported by and contacting the front frame ~~in a contact state~~;
 - an inner stator formed in a cylindrical shape and inserted onto ~~the~~ an outside circumferential surface of the cylinder with a predetermined interval from an inside diameter of the outer stator;
 - a mover inserted between the outer stator and the inner stator, and coupled to a piston inserted into the cylinder; and
 - a stator fixing ~~means~~ device incorporated with the front frame ~~to pass~~ and passing through the cylinder or the inner stator ~~in the~~ a longitudinal direction, ~~for supporting~~ that supports ~~and fixing~~ fixes both sides of the inner stator, wherein the stator fixing device comprises:
 - a first support formed at one side of the front frame with a predetermined area that contacts and supports one side of the inner stator;

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a plurality of passage grooves formed in the longitudinal direction on an inside circumferential surface of the inner stator contacting the outside circumferential surface of the cylinder;

a plurality of filling bars that extends from the first support that are inserted into the passage grooves of the inner stator, respectively; and

a second support formed by connecting the filling bars that supports other side of the inner stator.

2. (Canceled).

3. (Currently Amended) The apparatus of claim-2_1, wherein the plurality of passage grooves are formed on the inside circumferential surface of the inner stator in the circumferential direction at predetermined intervals.

4. (Currently Amended) The apparatus of claim-2_1, wherein the sections of the plurality of filling bar units bars and the sections of the plurality of passage grooves are formed in a rectangular shape.

5. (Currently Amended) The apparatus of claim-2_1, wherein the first supporting unit is vertical support extends perpendicular to the outside circumferential surface of the cylinder.

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6. (Currently Amended) The apparatus of claim 2 1, wherein the second ~~supporting unit support~~ is formed in a ring shape with a predetermined thickness, and ~~extended extends~~ from the plurality of filling bar units bars.

7. (Currently Amended) The apparatus of claim 1 An apparatus for fixing a stator of a motor of a reciprocal compressor, the apparatus comprising:
a front frame;
a cylinder inserted into and coupled to the front frame;
an outer stator supported by and contacting the front frame;
an inner stator formed in a cylindrical shape and inserted onto an outside circumferential surface of the cylinder with a predetermined interval from an inside diameter of the outer stator;
a mover inserted between the outer stator and the inner stator, and coupled to a piston inserted into the cylinder; and
a stator fixing device incorporated with the front frame and passing through the cylinder or the inner stator in a longitudinal direction, that supports and fixes both sides of the inner stator, wherein the stator fixing means device comprises:
a first ~~supporting unit support~~ formed at one side of the front frame with a predetermined area~~[L]~~ ~~for contacting that contacts and supporting~~ supports one side of the inner stator~~[L]~~;

a plurality of passage grooves formed in the longitudinal direction on ~~the an~~ outside circumferential surface of the cylinder contacting ~~the an~~ inside circumferential surface of the inner stator[[],];

a plurality of filling ~~bar units extended bars that extends~~ bars that extends from the first supporting unit, ~~and support that are~~ inserted into the plurality of passage grooves of the cylinder, respectively[[],]; and

a second supporting unit ~~support~~ formed by connecting the plurality of filling ~~bar units, for supporting bars that support~~ bars that support the other side of the inner stator.

8. (Currently Amended) The apparatus of claim 7, wherein the plurality of passage grooves are formed on the outside circumferential surface of the cylinder in the circumferential direction at predetermined intervals.

9. (Currently Amended) The apparatus of claim 7, wherein the sections of the plurality of filling ~~bar units bars~~ and the plurality of passage grooves are formed in a semicircular shape.

10. (Currently Amended) The apparatus of claim 7, wherein the first supporting unit is vertical ~~support extends perpendicular~~ to the outside circumferential surface of the cylinder.

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11. (Currently Amended) The apparatus of claim 7, wherein the second ~~supporting unit support~~ is formed in a ring shape with a predetermined thickness[[],] and ~~extended extends~~ from the plurality of filling bar units bars.

12. (Currently Amended) The apparatus of claim 1, wherein the cylindrical inner stator is a stacked body formed by stacking ~~a predetermined shape of a plurality of thin plates[[],]~~ ~~wherein the thin plates composing the cylindrical stacked body are stacked toward the center direction of the cylindrical stacked body of a predetermined shape.~~

13-18. (Canceled).

19. (New) The apparatus of claim 7, wherein the cylindrical inner stator is a stacked body formed by stacking a predetermined shape of thin plates, and wherein the thin plates comprising the cylindrical stacked body are stacked toward a center direction of the cylindrical stacked body.